

CLAIMS**VACCINE COMPOSITION COMPRISING INTERLEUKIN-15 (IL-15)**

- 1) A vaccine composition wherein human IL-15 is an antigen.
- 2) A vaccine composition of claim 1 wherein IL-15 is recombinant.
- 3) A vaccine composition of claim 1 and claim 2 wherein IL-15 is fused to a carrier protein.
- 4) A vaccine composition of claim 3 wherein a carrier protein is p64k.
- 5) A method to treat IL-15 expression-related diseases, the method comprising effective therapeutic doses administration of a vaccine composition of claims 1-5.
- 6) A method to treat autoimmune diseases such as RA, Crohn's disease and psoriasis, the method comprising effective therapeutic doses administration of a vaccine composition of claims 1-5.
- 7) A method to treat leukemia related to IL-15 as a growth factor, the method comprising effective therapeutic doses administration of a vaccine composition of claims 1-5.
- 8) A method of claims 6-8 wherein vaccine composition is used concurrently with anti-inflammatory drugs or other cytokines antagonist.
- 9) The use of a vaccine composition of claims 1-5 to generate a neutralizing antibodies response against autologous Interleukin-15 (IL-15).
- 10) The use of a vaccine composition of claim 10 to treatment of autoimmune diseases such as RA, Crohn's disease and psoriasis.
- 11) The use of a vaccine composition of claim 10 to treatment of leukemia related to IL-15 as a growth factor.
- 12) The use of a DNA sequence coding for human IL-15 like a DNA vaccine to treat IL-15 expression-related diseases.